

Minnesota State College Southeast

ABCT 1145: Auto Body Disassembly/Reassembly

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: *.*

Lab Hours/Week: 4

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Vehicle repairs require correct disassembly, damage assessment, and reassembly procedures to complement structural, body, and refinishing procedures. The need to document conditions prior to repair as well as at the completion of repairs is required as part of vehicle work files. Vehicles that have repairs performed need to be cleaned and detailed prior to delivery to the owner at the completion of repairs and the skills and techniques to do this are included in the course. (Prerequisite or concurrent: ABCT1115) (2 credits: 0 lecture/2 lab)

B. COURSE EFFECTIVE DATES: 02/10/2015 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Identify safe practices, vehicle construction, and nomenclature
2. Utilize vehicle service reference sources to disassemble and reassemble exterior body trim, bumper covers, lighting systems, interiors, and luggage compartment trim
3. Install, adjust, and secure, moveable glass, headlamps, bumper covers, wheels, and trim components
4. Perform vehicle detailing procedures and inspections required for delivery of vehicles to customers following collision repairs
5. Document damage and condition of vehicles on arrival, during disassembly, and at completion of repairs

D. LEARNING OUTCOMES (General)

1. Identify and demonstrate safe practices for vehicle service
2. Identify potential safety and environmental concerns associated with hybrid vehicle systems
3. Interpret vehicle service information
4. Identify type of vehicle construction
5. Identify and use vehicle nomenclature and terminology
6. Identify and use vehicle resources available through the internet, industry software, and service manuals
7. Examine and use safe vehicle lifting, jacking, and stabilizing procedures
8. Remove wheels and tire assemblies, inspect for damage, reinstall, and torque lug nuts or bolts
9. Identify vehicle fastener types, uses, and specialty tools and procedu
10. Remove and reinstall exterior trim parts
11. Remove and reinstall bumper covers and exterior lighting systems
12. Perform light check and aim headlamps
13. Remove and reinstall interior trim parts
14. Inspect and remove passenger restraint system components
15. Remove, reinstall, and adjust moveable glass, sunroofs, and retractable top components
16. Remove and reinstall trunk and luggage area trim parts and spare tire and related items
17. Diagnose and repair water leaks, wind leaks, and dust leaks
18. Inspect, adjust, repair, and replace weather stripping
19. Prepare vehicle for estimating inspection by removing damaged parts
20. Document existing condition of vehicle on arrival at shop prior to repairs
21. Identify and perform interior vehicle cleaning and detailing procedures
22. Identify and perform engine bay and mechanical area detailing procedures
23. Identify and perform exterior vehicle detailing and washing procedures
24. Perform final inspection of repaired vehicles for customer delivery
25. Complete all course assignments, quizzes, and tests
26. Exhibit professionalism

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted